

**ABSTRACT OF THE DISCLOSURE****SYSTEM AND METHOD FOR THE DETECTION OF PRESENCE  
OF A SIGNAL AND ITS SYNCHRONIZATION, FOR A FREQUENCY-  
HOPPING SYSTEM WORKING IN A DISTURBED ENVIRONMENT**

A method and device for the detection and synchronization of a signal in a frequency-hopping system, the method comprising at least the following steps: for each frequency  $F(1) \dots F(M)$ , selecting the  $K$  samples corresponding to the greatest values of the signal, and their positions; combining, for a given position, the  $M$  greatest values selected from among  $K$  on each frequency having said position, and keeping the greatest combined value and the corresponding position; comparing the greatest combined value with a threshold value, and if it is greater than this threshold value, then declaring the detection of the signal.